ELSEVIER

Journal of Orthopaedic Research 20 (2002) 1388–1391

Journal of Orthopaedic Research

www.elsevier.com/locate/orthres

Volume 20, 2002

AUTHOR INDEX

Aarnes GT, 789
Aaron RK, 40, 233
Abrams RA, 364
Abu-Amer Y, 174
Ackermann PW, 849
Afshar P, 364
Ahmed M, 849
Akeson WH, 1274
Al-Ali D, 249
Aldini NN, 756, 1217
Alexander EJ, 881
Alfredson H, 934
Allen WA, 669
Almquist PO, 427
Amadio PC, 857
Ameer GA, 16
Amiel D, 447
An K-N, 857
Anderson JM, 696
Anderson PC, 1232
Andriacchi TP, 101, 881
Antolič V, 1025
Antoniou J, 9
Apreleva M, 439
Archambault J, 36
Armstrong AL, 289
Arnbjörnsson A, 427
Arnoczky SP, 29, 947
Aro HT, 957
Asou Y, 827
Aspenberg P, 397, 1170
Athanasiou KA, 669
Attawia M, 20
Aubin C-E, 1121
Augat P, 1099
Awad HA, 1315
Awiszus F, 108
Azuma H, 1345

Baan GC, 863
Badger GJ, 421
Bahk W-J, 1197
Bail H-J, 310
Baker V, 208
Balian G, 1232
Banes AJ, 36
Baran GR, 704
Barclay L, 535
Barrach HJ, 289
Barroug A, 274
Beam HA, 587, 1210
Beaupré GS, 633, 669
Beck DJ, 391
Behnam K, 1190
Bellare A, 1152
Bennell K, 208
Bennett R, 875
Bent SJ, 1290
Berry BH, 464
Bershadsky B, 506
Bertram JEA, 910
Bey MJ, 869
Beynnon BD, 332, 421, 893
Bi Y, 1, 696
Billinghurst RC, 1282
Bishop AT, 772
Bjur D, 934
Blake C, 1050
Blevins FT, 920
Block JA, 101, 834
Boden SD, 1050
Bodor M, 1131
Boivin GP, 1315
Bolander ME, 51, 516, 562
Bonnema JD, 483
Boorman RS, 346
Börlin N, 688
Bottolfson H, 1146
Bouwmeester PSJM, 267
Bouxsein ML, 779
Boyer MI, 447
Bragdon CR, 688
Brand R, 953
Brattbakk B, 421
Bray RC, 984, 990, 1256
Brochmann EJ, 1190
Bronson D, 464
Brower-Toland BD, 1290
Brown TD, 303, 683
Brownlow HC, 593
Budny T, 939
Bulstra SK, 267
Bünger C, 662
Burnet S, 895
Burns ME, 447
Buschmann MD, 819, 1265
Butler DL, 1009, 1315
Butler MG, 387

Cadossi R, 756
Callaghan JJ, 683
Canè V, 756
Caprise Jr PA, 1205
Carlson CS, 92
Case JP, 101
Castillo AB, 1185
Catelas I, 9
Caterson B, 40
Caterson EJ, 1042
Cavani F, 756
Chaipinyo K, 1070
Chan E-C, 654
Chang R, 20, 1042
Chansky HA, 723
Chao EYS, 793, 957, 1106, 1240
Chapovsky F, 1042
Chen A, 842
Chen D, 1106
Chen F, 1327
Chen J-S, 295
Chen R-M, 295
Chen S, 174
Chen X, 142
Cheng C-K, 1038
Cheng CYJ, 740
Cheung HS, 83
Cheung J, 416
Cho DR, 704
Choi H-R, 927
Chow HKD, 740
Chuai M, 1246
Churchill DL, 893
Ciombor DMck, 40, 233
Claes L, 953, 1099
Clasper JC, 648
Cleek TM, 633
Clemens VR, 58
Clohisy JC, 174
Cole AA, 526
Collier TO, 696
Conrad III EU, 723
Conzemius MG, 303
Cool JC, 416
Couvreur P, 857
Cowan S, 208
Crawford K, 464
Crossley K, 208
Cs-Szabo G, 257
Cullinane DM, 579, 1240
Cummings JF, 338, 1003, 1009

Dahlgren LA, 910
Dahners LE, 1205
Daniel M, 1025
Danielson KG, 1060, 1175
D'Augusta D, 1050
Davidson JM, 318
Davisson T, 842
Dawson JM, 318
DeFrate LE, 887
DeHeer DH, 483
Deitz LW, 1106, 1240
Devine MJ, 1232
DiMicco MA, 1274
Ding M, 615
Dirschl DR, 1205
Ditsios K, 447
Do PD, 894
Dohno H, 1311
Doita M, 1380
Drescher W, 662
Dressler MR, 1315
Driscoll PJ, 370
Dvorak MF, 1115
Dyhre-Poulsen P, 433
Dykes D, 1146
Dyrby CO, 881

Eckert-Hübner K, 1099
Eckstein F, 249
Eger W, 526
Eggerer J, 535
Ehrlich MG, 289
Eick JDD, 894
Einhorn TA, 281, 579
Eisenberg SR, 579
Ekdahl C, 427
El-Amin SF, 20
Elliott DM, 996
Elman MV, 579
Englmeier K-H, 249
Erdmann JM, 174
Erickson HP, 834
Eriksen HA, 1352
Eskew JD, 387
Estok DM, 688
Ewers BJ, 545

Faber S, 249
Fallon J, 920
Fan Z, 806
Feitelson JBA, 391
Ferber R, 1139
Ferrario VF, 122
Finerman GAM, 1016
Fini M, 756, 1217
Fischer-Rasmussen T, 433
Fisher CG, 1115
Fishkin Z, 204
Fitzsimmons JS, 58, 562
Fleming BC, 332, 421, 893
Fleming JT, 391
Forslund C, 1170
Fox N, 1164
Frank CB, 346, 520, 967, 1345
Franzén L, 1358
Frassica FJ, 957
Fredrick A, 579
Frei H, 1333
Fridén T, 427
Fritz EA, 490
Fu FH, 439
Fukuda H, 1365
Fukumoto T, 58, 562

Galatz L, 454
Gardin JF, 92
Gardner J, 182
Gardner JE, 182
Gardner K, 947
Garon M, 819
Gause P, 1016
Gebauer GP, 587
Geesink RGT, 267
Gelberman RH, 447
Genovese M, 1164
Gerlach C, 551
Gerstenfeld LC, 579
Ghert MA, 834
Giardino R, 756, 1217
Giavaresi G, 756, 1217
Giddings VL, 669
Gill TJ, 887
Gioe T, 506

PII: S0736-0266(02)00186-9

ELSEVIER

Journal of Orthopaedic Research 20 (2002) 1388–1391

Journal of Orthopaedic Research

www.elsevier.com/locate/orthres

Volume 20, 2002

AUTHOR INDEX

Aarnes GT, 789
Aaron RK, 40, 233
Abrams RA, 364
Abu-Amer Y, 174
Ackermann PW, 849
Afshar P, 364
Ahmed M, 849
Akeson WH, 1274
Al-Ali D, 249
Aldini NN, 756, 1217
Alexander EJ, 881
Alfredson H, 934
Allen WA, 669
Almquist PO, 427
Amadio PC, 857
Ameer GA, 16
Amiel D, 447
An K-N, 857
Anderson JM, 696
Anderson PC, 1232
Andriacchi TP, 101, 881
Antolič V, 1025
Antoniou J, 9
Apreleva M, 439
Archambault J, 36
Armstrong AL, 289
Arnbjörnsson A, 427
Arnoczky SP, 29, 947
Aro HT, 957
Asou Y, 827
Aspenberg P, 397, 1170
Athanasiou KA, 669
Attawia M, 20
Aubin C-E, 1121
Augat P, 1099
Awad HA, 1315
Awiszus F, 108
Azuma H, 1345

Baan GC, 863
Badger GJ, 421
Bahk W-J, 1197
Bail H-J, 310
Baker V, 208
Balian G, 1232
Banes AJ, 36
Baran GR, 704
Barclay L, 535
Barrach HJ, 289
Barroug A, 274
Beam HA, 587, 1210
Beaupré GS, 633, 669
Beck DJ, 391
Behnam K, 1190
Bellare A, 1152
Bennell K, 208
Bennett R, 875
Bent SJ, 1290
Berry BH, 464
Bershadsky B, 506
Bertram JEA, 910
Bey MJ, 869
Beynnon BD, 332, 421, 893
Bi Y, 1, 696
Billinghurst RC, 1282
Bishop AT, 772
Bjur D, 934
Blake C, 1050
Blevins FT, 920
Block JA, 101, 834
Boden SD, 1050
Bodor M, 1131
Boivin GP, 1315
Bolander ME, 51, 516, 562
Bonnema JD, 483
Boorman RS, 346
Börlin N, 688
Bottolfson H, 1146
Bouwmeester PSJM, 267
Bouxsein ML, 779
Boyer MI, 447
Bragdon CR, 688
Brand R, 953
Brattbakk B, 421
Bray RC, 984, 990, 1256
Brochmann EJ, 1190
Bronson D, 464
Brower-Toland BD, 1290
Brown TD, 303, 683
Brownlow HC, 593
Budny T, 939
Bulstra SK, 267
Bünger C, 662
Burnet S, 895
Burns ME, 447
Buschmann MD, 819, 1265
Butler DL, 1009, 1315
Butler MG, 387

Cadossi R, 756
Callaghan JJ, 683
Canè V, 756
Caprise Jr PA, 1205
Carlson CS, 92
Case JP, 101
Castillo AB, 1185
Catelas I, 9
Caterson B, 40
Caterson EJ, 1042
Cavani F, 756
Chaipinyo K, 1070
Chan E-C, 654
Chang R, 20, 1042
Chansky HA, 723
Chao EYS, 793, 957, 1106, 1240
Chapovsky F, 1042
Chen A, 842
Chen D, 1106
Chen F, 1327
Chen J-S, 295
Chen R-M, 295
Chen S, 174
Chen X, 142
Cheng C-K, 1038
Cheng CYJ, 740
Cheung HS, 83
Cheung J, 416
Cho DR, 704
Choi H-R, 927
Chow HKD, 740
Chuai M, 1246
Churchill DL, 893
Ciombor DMck, 40, 233
Claes L, 953, 1099
Clasper JC, 648
Cleek TM, 633
Clemens VR, 58
Clohisy JC, 174
Cole AA, 526
Collier TO, 696
Conrad III EU, 723
Conzemius MG, 303
Cool JC, 416
Couvreur P, 857
Cowan S, 208
Crawford K, 464
Crossley K, 208
Cs-Szabo G, 257
Cullinane DM, 579, 1240
Cummings JF, 338, 1003, 1009

Dahlgren LA, 910
Dahners LE, 1205
Daniel M, 1025
Danielson KG, 1060, 1175
D'Augusta D, 1050
Davidson JM, 318
Davisson T, 842
Dawson JM, 318
DeFrate LE, 887
DeHeer DH, 483
Deitz LW, 1106, 1240
Devine MJ, 1232
DiMicco MA, 1274
Ding M, 615
Dirschl DR, 1205
Ditsios K, 447
Do PD, 894
Dohno H, 1311
Doita M, 1380
Drescher W, 662
Dressler MR, 1315
Driscoll PJ, 370
Dvorak MF, 1115
Dyhre-Poulsen P, 433
Dykes D, 1146
Dyrby CO, 881

Eckert-Hübner K, 1099
Eckstein F, 249
Eger W, 526
Eggerer J, 535
Ehrlich MG, 289
Eick JDD, 894
Einhorn TA, 281, 579
Eisenberg SR, 579
Ekdahl C, 427
El-Amin SF, 20
Elliott DM, 996
Elman MV, 579
Englmeier K-H, 249
Erdmann JM, 174
Erickson HP, 834
Eriksen HA, 1352
Eskew JD, 387
Estok DM, 688
Ewers BJ, 545

Faber S, 249
Fallon J, 920
Fan Z, 806
Feitelson JBA, 391
Ferber R, 1139
Ferrario VF, 122
Finerman GAM, 1016
Fini M, 756, 1217
Fischer-Rasmussen T, 433
Fisher CG, 1115
Fishkin Z, 204
Fitzsimmons JS, 58, 562
Fleming BC, 332, 421, 893
Fleming JT, 391
Forslund C, 1170
Fox N, 1164
Frank CB, 346, 520, 967, 1345
Franzén L, 1358
Frassica FJ, 957
Fredrick A, 579
Frei H, 1333
Fridén T, 427
Fritz EA, 490
Fu FH, 439
Fukuda H, 1365
Fukumoto T, 58, 562

Galatz L, 454
Gardin JF, 92
Gardner J, 182
Gardner JE, 182
Gardner K, 947
Garon M, 819
Gause P, 1016
Gebauer GP, 587
Geesink RGT, 267
Gelberman RH, 447
Genovese M, 1164
Gerlach C, 551
Gerstenfeld LC, 579
Ghert MA, 834
Giardino R, 756, 1217
Giavaresi G, 756, 1217
Giddings VL, 669
Gill TJ, 887
Gioe T, 506

PII: S0736-0266(02)00186-9

Gioe TJ, 1146
Giurea A, 1274
Glant TT, 490
Glasby MA, 370
Glatt V, 887
Glimcher MJ, 274
Goater JJ, 169
Goldberg VM, 1, 696
Goldring SR, 704
Gomoll A, 1152
Goodman S, 1164
Goodman SB, 556, 669
Goodwin KJ, 600
Gotoh M, 1365
Grabiner, and MD, 1323
Graff RD, 76
Graichen H, 249
Grant JP, 1115
Grassi G, 122
Gréalou L, 1121
Greco F, 163
Greenberg CS, 76
Greenfield EM, 1, 696
Greenleaf JF, 51
Greggi T, 1217
Grood E, 953
Grood ES, 338, 1003, 1009, 1129
Grover J, 257
Guardo R, 819
Guilak F, 92, 996
Gunter TE, 1079
Günther K-P, 551
Guo X, 740

Haas NP, 310
Hage JJ, 863
Hall F, 747
Hamada K, 1365
Hamada M, 1305
Hame S, 1016
Han B, 747
Hansen ES, 662
Haro H, 409
Harris PD, 391
Harris WH, 688
Hart DA, 520, 535
Harwood FL, 447
Hasan T, 241
Hasegawa Y, 927
Hashizume H, 376
Hatano H, 516
Hattersley G, 454
Hauge EM, 662
Haugh LD, 893
Haut RC, 545
Hawkes WG, 182
Hayashi K, 975
Hazleman BL, 895
Hebel JR, 182
Heiner AD, 683
Helms JA, 1091
Hentz VR, 902
Hertzler J, 676
Herzog W, 36
Hickok NJ, 20, 1060
Hill PF, 648
Hirasawa Y, 1311
Hirose K, 927
Hitora T, 1380
Ho F-Y, 1038
Hoek JB, 1042
Hogervorst T, 1256
Holzer G, 281
Homminga GN, 267
Hong C-Y, 704
Hoonjan A, 29
Horibe S, 1305
Howell DS, 83
Hsieh AH, 325
Hsieh Y-F, 764
Hu D, 1091
Huang C-H, 1038
Huch K, 551
Hudson JI, 182
Huijing PA, 863
Huk OL, 9
Humphreys H, 895
Hüning M, 310
Hunter DM, 1016
Hurwitz DE, 101
Hvid I, 615

Iglič A, 1025
Ikeda K, 957
Ikenoue T, 556, 1164
Ingerslev J, 662
Inoue A, 1365
Inoue N, 793, 957, 1106, 1240
Ionescu M, 1282
Ishiguro N, 927
Ishii Y, 353
Itoh M, 499
Itoh T, 499
Ivie TJ, 990
Iwase M, 499
Iwata H, 382, 927

Jacobs JJ, 490
Jamali AA, 364
Jang E, 1232
Jean W-C, 295
Jensen DB, 433
Jensen SD, 662
Jensen-Vick K, 1225
Jiao A, 1050
Jomha NM, 1253
Jo Oursler M, 562
Jørgensen CS, 151
Joyner CJ, 593

Kaneps AJ, 607
Kao H-C, 1038
Kärrholm J, 688
Kassim RA, 1146
Kato T, 409
Kawakami M, 376
Keaveny TM, 801
Kenzora JE, 182
Keyak JH, 607
Khatri CA, 473
Kidder LS, 142
Kikuchi T, 1298
Kim H-S, 1050
Kim KJ, 499
Kimata K, 382
Kinner B, 622
Kinsey S, 1225
Kippers V, 112
Kobayashi K, 382
Kobayashi S, 730
Kobayashi Y, 499
Kofman-Alfaro S, 899
Komori H, 409
Kondo S, 382, 927
Koopman P, 827
Kopperdahl DL, 801
Korvick DL, 338
Krajewski A, 756
Kralj-Iglič V, 1025
Kramer PA, 399
Kraus VB, 92
Kreicbergs A, 849
Krettek C, 222
Kreulen M, 863
Krishnan S, 464
Kristiansen LP, 137, 789
Krogsgaard MR, 433
Kuettner KE, 526
Kuijer R, 267
Kulenovic E, 391
Kundu T, 151
Kunig S, 842
Kunz DN, 975
Kuprash DV, 714
Kuribayashi K, 376
Kurosaka M, 1380
Kurutz S, 192
Kuskowski M, 506

Labelle H, 1121
Labovitch R, 332
Lai T-S, 76
Langer M, 939
Langer R, 16
Laughton C, 1139
Laurencin CT, 20
Lavagnino M, 29, 947
Laverty S, 1282
Lavoie G, 1253
Law LP, 740
Lawson GM, 370
Lazatin J, 1175
Le Graverand M-PH, 535
Lee C, 579
Lee GM, 76
Lee JW, 66
Lee KM, 740
Lee MS, 556
Lee N, 654
Légaré A, 819
Leonard CA, 984
Leppilahti J, 1352
Les CM, 607, 633
Lester G, 40
Levy MS, 338, 1009
Lew WD, 142
Li G, 779, 887
Li H, 662
Li RC, 1050
Li XJ, 779
Liau J-J, 1038
Lieber RL, 364
Lieberman JR, 1197
Lietman SA, 1240
Lin S-S, 654
Lin SS, 587, 1210
Lin Y-L, 295
Linde F, 615
Linsenmayer TF, 575
Liu H-C, 295
Liu S-J, 654
Lo IKY, 520
Loehr JF, 357
Lorentzon R, 934
Louis-Ugbo J, 1050
Lu HH, 20
Ludvigsen P, 137, 789
Luppen C, 779

Ma H-M, 1038
Ma T, 1164
Machen MS, 793
Machner A, 108
Mae T, 1305
Magaziner J, 182
Mahmood TA, 16
Majeska RJ, 281
Majima T, 520, 1345
Malchau H, 688
Malkani AL, 391
Mandahl N, 723
Mandell JA, 669
Mankin HJ, 241
Mann KA, 676
Marchuk LL, 520
Markel MD, 975
Markolf KL, 1016
Martin RB, 1185
Martini L, 756
Marui T, 1380
Matsui N, 562
Matsukawa A, 1298
Matsumoto F, 357
Matsumoto T, 376
Matsuura I, 1164
Mavčič B, 1025
Mayr MT, 1050
Mayton L, 1031
Mazzucco D, 1157
McCarthy EF, 793
McClay I, 1139
McElfresh E, 506
McGann LE, 1253
McHale KA, 793
McKellop H, 1197
McKinley G, 1157
McLaren SG, 643
Meffert RH, 793
Mertens M, 454
Miclau T, 1091, 1205
Mierisch CM, 1232
Miller D, 204
Miller MA, 676
Minamizaki T, 1339
Miyama T, 1305
Miyanaga Y, 353
Mizuno K, 1323
Mizuta H, 562
Mollenhauer J, 526
Momose T, 857
Morgan EF, 801
Morino T, 1246
Morse P, 947
Mort JS, 257
Mossi E, 122
Moussa M, 1146
Muldrew K, 1253
Mungo DV, 159
Muramatsu K, 772
Murray MM, 875
Murray SS, 1190
Murrell GAC, 1372

Nagumo A, 1345
Nagura T, 881
Nakamura M, 1365
Nakamura N, 1305
Nakamura T, 1298
Nakata K, 1305
Nakatani T, 1380
Nanney LB, 318
Narmoneva DA, 83
Nawata K, 1339
Neame P, 40
Nedospasov SA, 714
Neidlinger-Wilke C, 953

Nelson CL, 643
Nesti LJ, 1042, 1175
Newell-Morris LL, 399
Ng JK-F, 112
Nichols D, 895
Nifuji A, 827
Nimni ME, 747
Nishida K, 1380
Nishii T, 130
Nishikawa T, 1323
Nixon AJ, 910, 1290
Noda M, 827
Nolte L-P, 1333
Norlin R, 1358
Nöth U, 1060
Noyes FR, 338
Nurminskaya MV, 575

Oakes BW, 1070
Oakes DA, 1016
Ochi T, 1305
Odgaard A, 615
O'Driscoll SW, 58, 562
Ogata T, 1246
Ogura T, 1311
Ohnishi I, 1106
Ohzono K, 130
O'Keefe RJ, 159, 169, 714, 811, 1079
O'Kouneff S, 1282
Okumura H, 1246
Olsen KM, 643
Olson EN, 827
Olson M, 506
Omokawa S, 215
Osada M, 409
Osyczka AM, 1060
Otte D, 222
Otterness IG, 535
Oursler MJ, 58, 562
Oxland TR, 1115, 1333
Ozaki T, 1323

Pacicca D, 579
Pagnotta A, 163
Pajala A, 1352
Palmbos PL, 483
Palmes D, 939
Pap G, 108
Parisini P, 1217
Park S-H, 1197
Parker SJ, 648
Parnianpour M, 112
Parpura V, 51
Parsons B, 332
Parsons JR, 587, 1210
Parsons IV IM, 439
Parvizi J, 51
Passmore JC, 391
Pateder DB, 811
Pearl ML, 192
Peckham S, 1050
Perelman N, 747
Pérez-Cabrera A, 899
Perinchief R, 688
Petit A, 9
Peura GD, 421
Pharr GM, 806
Pidoux I, 1282
Pompe B, 1025
Poole AR, 819, 1265, 1282
Poser RD, 669
Probst A, 939
Provenzano G, 182
Provenzano PP, 975
Puhl W, 551
Putnam AW, 683
Puzas JE, 159, 169, 714, 811, 1079

Qi WN, 66
Qi W-n, 834

Radosevich DM, 1146
Ragab AA, 1
Randle JA, 520
Rapp TB, 723
Ratcliffe A, 842
Ravaglioli A, 756
Reed AAC, 593
Regula D, 1164
Reikerås O, 137, 789
Reiner A, 1282
Reiser M, 249
Ren W, 1031
Resig S, 506
Rho JY, 806
Richards C, 895
Richardson CA, 112
Richter M, 222
Rimondini L, 756
Risberg MA, 893
Risteli J, 1352
Ritter C, 204
Robertson DD, 192
Robinson H, 506, 1146
Robinson RA, 303
Roebuck KA, 490
Rosen V, 454
Rosier R, 740
Rosier RN, 159, 169, 714, 811, 1079
Rossier Y, 1282
Roughley PJ, 257
Roy ME, 806
Rucker D, 1256
Ryals AB, 101
Ryd L, 427
Ryu J, 215

Sah R, 842
Sah RL, 325, 1274
Sakai T, 130, 1345
Sakiniene E, 198
Saleh K, 506
Saleh KJ, 1146
Salisbury K, 579
Salo PT, 984, 990, 1256
Sandell LJ, 382
Sandström P, 934
Sanyal A, 58, 562
Sarkar G, 516
Sato Y, 130
Savard P, 819
Schachar NS, 1253
Scharf H-P, 551
Schmidt R, 506
Schmidt TL, 894
Schneider TO, 939
Schroeder G, 222
Schubert P, 1246
Schuler P, 947
Schumacher BL, 526
Schurman DJ, 556
Schwardt JD, 1106
Schwartz HS, 387
Schwarz EM, 159, 169, 714, 811, 1079
Scott RD, 1157
Scully SP, 66, 834
Seeherman H, 1050
Seeherman HJ, 779
Seerattan RA, 1256
Semevolos SA, 1290
Serrao G, 122
Setton LA, 83, 996
Sevensma ET, 545
Sforza C, 122
Shah AK, 20
Shanbhag AS, 704
Sharkey NA, 600
Sharkey PF, 1175
Shi S-L, 257
Shimojo H, 353
Shinjo H, 1305
Shino K, 1305
Shinomiya K, 409, 827
Shors EC, 747
Shrive NG, 346, 520, 967
Silva M, 1197
Silva MJ, 447, 764
Sim FH, 957
Simkin PA, 399
Simon Jr CG, 473
Simpson AHRW, 593
Simpson H, 779
Skinner RA, 643
Skripitz R, 397
Sluiter WJ, 416
Smeltzer MS, 643
Smeulders MJC, 863
Smith F, 1315
Smith RL, 556, 669, 1164
Soloviev A, 714
Song HK, 869
Song Y, 669
Soslowsky LJ, 454, 869
Specchia N, 163
Spector M, 622, 875, 1157
Speed CA, 895
Spiegel HU, 939
Spindler KP, 318
Stahlman GC, 318
Starrak GS, 910
Steen H, 137, 789
Stillman B, 208
Stöve J, 551
Stover SM, 607
Stratmann U, 939
Sugano N, 130
Sugiura H, 382
Sullivan LG, 241
Summey Jr BT, 76
Sung K-LP, 325
Swadener JG, 806
Sytsma MJ, 483
Sztrolovics R, 257

Takagi K, 1298
Takai S, 1311
Tamaki T, 376
Tang B, 747
Tang JB, 215, 1327
Tarantal AF, 1185
Tarkowski A, 198
Tateishi T, 353
Taylor KT, 607
Teitelbaum S, 174
Teshima R, 1339
Thermann H, 222
Thibault M, 1265
Thomas JR, 643
Thomopoulos S, 454
Thompson Z, 1091
Thornton GM, 346, 967
Thorsen K, 934
Tian T, 947
Tillander B, 1358
Tis JE, 793
Tohyama H, 1345
Torricelli P, 756
Towheed T, 182
Towle CA, 241
Trøite Aarnes G, 137
Trindade M, 1164
Trindade MCD, 556
Troeger HD, 222
Trotter J, 920
Trudel G, 357
Tsuji K, 827
Tsuzaki M, 36
Tuan RS, 20, 1042, 1060, 1175
Tuli R, 1060, 1175

Ueng SWN, 654
Uh BS, 893
Uhthoff HK, 357
Unterhauser FN, 310
Ushida T, 353

Vail TP, 92, 996
Valero-Cuevas FJ, 902
van Damme M-PI, 1070
Van De Motter RR, 1
van den Bogert AJ, 1133
Vanderby Jr R, 975
van der Meulen MCH, 669, 910
Van Horn JR, 416
Veldhuizen AG, 416
Vermes C, 490
Vieira P, 587
Vignon E, 535
Vogel K, 920

Wang FW, 473
Wang J-H, 295
Wang JY, 83
Wang M, 1042
Wang M-X, 1372
Wang ML, 1175
Wang S, 233
Wanich T, 1152
Watanabe T, 382
Watanabe Y, 1311
Watkins PE, 648
Watnik MR, 1185
Wearden S, 215
Weaver BT, 545
Webber C, 1282
Wehrli FW, 869
Wei A-Q, 1372
Weiler A, 310
Welch RD, 464
Weng J-H, 654
Wenstrup R, 1315
Whalen RT, 633
Whallon JH, 29
Whitelegge JP, 1190
Wies JT, 895
Wight SA, 473
Williams GR, 454
Williams JL, 894
Williams III DS, 1139
Wills JS, 633

Wippermann B, 222
Wong N, 1164
Woo SL-Y, 439
Woo Lee J, 66
Wood M, 779
Wooley PH, 1031
Wozney JM, 779
Wright M, 241
Wu B, 1031
Wyatt R, 338
Wyland DJ, 996

Xie RG, 1327

Yamaguchi K, 192
Yamakawa H, 1365
Yamamoto H, 1246
Yamashita Y, 1339
Yamazaki H, 1365
Yan CH, 633
Yanagisawa K, 1365
Yang C-T, 1038
Yang L, 723
Young T-H, 1038
Yasuda K, 1345
Yonekawa M, 382
Yoshida M, 1298
Yoshikawa H, 130, 1305
Yoshino N, 1311
Yoshino S, 1225
Yoshizawa H, 730
Yu XW, 1327
Yuan J, 1372
Yuan L-J, 654
Yuan X, 688

Zarins B, 887
Zätterström R, 427
Zayontz S, 887
Zenteno JC, 899
Zhang H, 464
Zhang X, 159, 875
Zhang Y, 257, 303, 683
Zhao C, 857
Zhu CF, 669
Zinmmerman S, 182
Ziv I, 204
Zobitz M, 464
Zobitz ME, 857
Zoric B, 1016
Zukor DJ, 9
Zuscik MJ, 811, 1079

ELSEVIER

Journal of Orthopaedic Research 20 (2002) 1392–1402

Journal of Orthopaedic Research

www.elsevier.com/locate/orthres

Volume 20, 2002

SUBJECT INDEX

Accuracy
Evaluation of an external device measuring knee joint rotation: an in vivo study with simultaneous Roentgen stereometric analysis, 427

Achilles
High intratendinous lactate levels in painful chronic Achilles tendinosis. An investigation using microdialysis technique, 934

Achilles tendon
Achilles tendon healing: Long-term biomechanical effects of postoperative mobilization and immobilization in a new mouse model, 939
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

ACL
Measurement of anterior–posterior knee laxity: a comparison of three techniques, 421

ACS
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

ACS—Absorbable collagen sponge
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Adaptation
Material properties of interstitial lamellae reflect local strain environments, 600

Adipogenesis
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060

Adult
Cell outgrowth from the human ACL in vitro: regional variation and response to TGF-β1, 875

Aged
Cell outgrowth from the human ACL in vitro: regional variation and response to TGF-β1, 875

Aggrecan
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819

Aging
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Alginate
Effects of hyaluronan on proteoglycan content of osteoarthritic chondrocytes in vitro, 551

Alignment
Fibroblast orientation to stretch begins within three hours, 953

Alpha-adrenergic receptors
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391

Angiogenesis
Vascular endothelial growth factor (VEGF)-induced angiogenesis in herniated disc resorption, 409

Animal experiment
Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication, 740

Animal model
Chronic changes in rabbit retro-patellar cartilage and subchondral bone after blunt impact loading of the patellofemoral joint, 545
COX-2 selective NSAID decreases bone ingrowth in vivo, 1164
Effect of repeated irrigation and debridement on fracture healing in an animal model, 1197

Anisotropy
Anisotropic properties of human tibial cortical bone as measured by nanoindentation, 806

Ankle
Plantar impact causing midfoot fractures result in higher forces in Chopart's joint than in the ankle joint, 222

Anterior cruciate ligament
Cell outgrowth from the human ACL in vitro: regional variation and response to TGF-β1, 875
Subject variation in caprine anterior cruciate ligament reconstruction, 1009
The progression of anterior translation after anterior cruciate ligament reconstruction in a caprine model, 1003

Anterior cruciate ligament injury
ACL transection influences mRNA levels for collagen type I and TNF-α in MCL scar, 520

Arthritis
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819
Low molecular weight heparin aggravates infectious arthritis triggered by *Staphylococcus aureus*, 198

Arthroplasty
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

Articular cartilage
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996
Cryopreservation of intact human articular cartilage, 1253
Factors influencing changes in articular cartilage following hemiarthroplasty in sheep, 669

Articular cartilage surfaces
Assessment of specific mRNA levels in cartilage regions in a lapine model of osteoarthritis, 535

Atrophic
Human atrophic fracture non-unions are not avascular, 593

Atrophic non-union
Effect of repeated irrigation and debridement on fracture healing in an animal model, 1197

AUC—Area under the retention vs. time profile (%*day)
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

BB Wistar rat
The effects of blood glucose control upon fracture healing in the BB Wistar rat with diabetes mellitus, 1210

BCP—Biphasic calcium phosphate
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by

PII: S0736-0266(02)00187-0

biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Biodegradable antibiotic beads
In vivo study of hot compressing molded 50:50 poly (DL-lactide-co-glycolide) antibiotic beads in rabbits, 654

Biomechanical modeling
Rib cage surgery for the treatment of scoliosis: a biomechanical study of correction mechanisms, 1121

Biomechanics
Achilles tendon healing: Long-term biomechanical effects of postoperative mobilization and immobilization in a new mouse model, 939
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265
Denervation impairs healing of the rabbit medial collateral ligament, 990
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819
In situ strain and stress of nerve conduction blocking in the brachial plexus, 1311
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842
Subject variation in caprine anterior cruciate ligament reconstruction, 1009
The progression of anterior translation after anterior cruciate ligament reconstruction in a caprine model, 1003

Bisphosphonate
A novel bisphosphonate inhibits inflammatory bone resorption in a rat osteolysis model with continuous infusion of polyethylene particles, 499

Blood flow
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391

BMC
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

BMP receptor
Temporal expression patterns of BMP receptors and collagen II (B) during periosteal chondrogenesis, 58

BMP3: Bone morphogenetic protein 3
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Bone
Anisotropic properties of human tibial cortical bone as measured by nanoindentation, 806
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391
Expression of smooth muscle actin in osteoblasts in human bone, 622
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190
Stiff and strong compressive properties are associated with brittle post-yield behavior in equine compact bone material, 607

Bone defect
Subchondral defects in caprine femora augmented with in situ setting hydroxyapatite cement, polymethylmethacrylate, or autogenous bone graft: biomechanical and histomorphological analysis after two-years, 464

Bone density
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Bone formation
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Bone graft
Subchondral defects in caprine femora augmented with in situ setting hydroxyapatite cement, polymethylmethacrylate, or autogenous bone graft: biomechanical and histomorphological analysis after two-years, 464

Bone ingrowth
COX-2 selective NSAID decreases bone ingrowth in vivo, 1164

Bone marrow
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Bone mechanics
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801

Bone morphogenetic protein-2
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Bone morphogenetic proteins
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Bone resorption
Polyethylene and methyl methacrylate particle-stimulated inflammatory tissue and macrophages up-regulate bone resorption in a murine neonatal calvaria in vitro organ system, 1031

Bone stimulation
The effect of low intensity pulsed ultrasound applied to rabbit tibiae during the consolidation phase of distraction osteogenesis, 793

Bone strength
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801

Bone substitute
Subchondral defects in caprine femora augmented with in situ setting hydroxyapatite cement, polymethylmethacrylate, or autogenous bone graft: biomechanical and histomorphological analysis after two-years, 464

Brachial plexus
In situ strain and stress of nerve conduction blocking in the brachial plexus, 1311

Cadaveric
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

Calcaneus
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Calcitonin gene-related peptide
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

Cancellous bone
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Canine
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Cartilage
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265

Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282
Immunohistological analysis of transglutaminase factor XIIIA expression in mouse embryonic growth plate, 575
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842

Cartilage degeneration
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819

Cartilage material properties
Factors influencing changes in articular cartilage following hemiarthroplasty in sheep, 669

Cell–polymer interaction
Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone, 20

Cells
Fibroblast orientation to stretch begins within three hours, 953

Ceramic
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Chaperone
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190

Chemokines
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

Chondrocyte
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842

Chondrogenesis
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060
Temporal expression patterns of BMP receptors and collagen II (B) during periosteal chondrogenesis, 58

Chondropathy
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Chopart
Plantar impact causing midfoot fractures result in higher forces in Chopart's joint than in the ankle joint, 222

Chronic study
Chronic changes in rabbit retro-patellar cartilage and subchondral bone after blunt impact loading of the patellofemoral joint, 545

Collagen
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282

Collagen II (B)
Temporal expression patterns of BMP receptors and collagen II (B) during periosteal chondrogenesis, 58

Collagenase
Cyclic compression of cartilage/bone explants in vitro leads to physical weakening, mechanical breakdown of collagen and release of matrix fragments, 1265

Compression
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842

Confocal microscopy
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696

Connective tissue
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863

Contact stress
Mathematical estimation of stress distribution in normal and dysplastic human hips, 1025

Contaminated fractures
High-pressure pulsatile lavage irrigation of contaminated fractures: effects on fracture healing, 1205

Contraction
Expression of smooth muscle actin in osteoblasts in human bone, 622

Correction mechanisms
Rib cage surgery for the treatment of scoliosis: a biomechanical study of correction mechanisms, 1121

Cortical bone
Material properties of interstitial lamellae reflect local strain environments, 600
Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys (*Macaca mulatta*), 1185

COX-2 inhibitor
COX-2 selective NSAID decreases bone ingrowth in vivo, 1164

CPM—Counts per minute
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Cryopreservation
Cryopreservation of intact human articular cartilage, 1253

Crystallin
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190

Cytokine
A novel bisphosphonate inhibits inflammatory bone resorption in a rat osteolysis model with continuous infusion of polyethylene particles, 499
ACL transection influences mRNA levels for collagen type I and TNF-α in MCL scar, 520

Cytokines
The role of adsorbed endotoxin in particle-induced stimulation of cytokine release, 704

Deep flexion
Mechanical loads at the knee joint during deep flexion, 881

Delayed union
Effect of repeated irrigation and debridement on fracture healing in an animal model, 1197

Development
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827
Parathyroid hormone-related peptide and Indian hedgehog expression patterns in naturally acquired equine osteochondrosis, 1290

Developmental myosin
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Diabetes mellitus
The effects of blood glucose control upon fracture healing in the BB Wistar rat with diabetes mellitus, 1210

Differentiation
Titanium particles suppress expression of osteoblastic phenotype in human mesenchymal stem cells, 1175

Distraction osteogenesis
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779
The adaptation of soleus and edl in a rat model of distraction osteogenesis: IGF-1 and fibrosis, 1225

The effect of low intensity pulsed ultrasound applied to rabbit tibiae during the consolidation phase of distraction osteogenesis, 793

Dyschondroplasia
Parathyroid hormone-related peptide and Indian hedgehog expression patterns in naturally acquired equine osteochondrosis, 1290

Ectrodactyly
Mutational analysis of HOXD13 and HOXA13 genes in the triphalangeal thumb–brachyectrodactyly syndrome, 899

Elastic modulus
Material properties of interstitial lamellae reflect local strain environments, 600

Elbow
Extracorporeal shock wave therapy for lateral epicondylitis—a double blind randomised controlled trial, 895

Electromagnetic fields
The effect of pulsed electromagnetic fields on the osteointegration of hydroxyapatite implants in cancellous bone: a morphologic and microstructural in vivo study, 756

Endotoxin
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696
The role of adsorbed endotoxin in particle-induced stimulation of cytokine release, 704

Equine
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282
Stiff and strong compressive properties are associated with brittle post-yield behavior in equine compact bone material, 607

Excitation–contraction coupling
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Experimental osteoarthritis
Assessment of specific mRNA levels in cartilage regions in a lapine model of osteoarthritis, 535

Extracellular matrix
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Fatigue
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764

Femoral component
Reliability of detecting prosthesis/cement interface radiolucencies in total hip arthroplasty, 683

Fibroblasts
Fibroblast orientation to stretch begins within three hours, 953

Fibronectin
Fibronectin, MMP-1 and histologic changes in rotator cuff disease, 1358

Fibrosis
The adaptation of soleus and edl in a rat model of distraction osteogenesis: IGF-1 and fibrosis, 1225

Finger
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

Finite element modeling
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801

Flexor tendon
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Fluorescence microscopy
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696

Force transmission
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863

Fracture
Early intramedullary nailing in an animal model of a heavily contaminated fracture of the tibia, 648
Human atrophic fracture non-unions are not avascular, 593
The effects of blood glucose control upon fracture healing in the BB Wistar rat with diabetes mellitus, 1210

Fracture healing
Effect of repeated irrigation and debridement on fracture healing in an animal model, 1197
High-pressure pulsatile lavage irrigation of contaminated fractures: effects on fracture healing, 1205

Friction
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Fusion protein
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

Gait
Mechanical loads at the knee joint during deep flexion, 881
Muscle reflexes during gait elicited by electrical stimulation of the posterior cruciate ligament in humans, 433

Gait analysis
A comparison of within- and between-day reliability of discrete 3D lower extremity variables in runners, 1139

GAP-43
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

Gene expression
ACL transection influences mRNA levels for collagen type I and TNF-α in MCL scar, 520

Giant cell tumor
Clonality studies in giant cell tumor of bone, 387

GSH: Reduced glutathione
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

GSSG: Oxidized glutathione
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

HAc: Acetic acid
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Hand
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

Healing
Cell outgrowth from the human ACL in vitro: regional variation and response to TGF-β1, 875
Subject variation in caprine anterior cruciate ligament reconstruction, 1009
The progression of anterior translation after anterior cruciate ligament reconstruction in a caprine model, 1003

Heat shock protein
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190

Hemiarthroplasty
Factors influencing changes in articular cartilage following hemiarthroplasty in sheep, 669

Heparin
Low molecular weight heparin aggravates infectious arthritis triggered by *Staphylococcus aureus*, 198

Herniated disc (HD)
Vascular endothelial growth factor (VEGF)-induced angiogenesis in herniated disc resorption, 409

High-pressure irrigation
High-pressure pulsatile lavage irrigation of contaminated fractures: effects on fracture healing, 1205

Hip
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

Hip dysplasia
Mathematical estimation of stress distribution in normal and dysplastic human hips, 1025

Hip joint
Mathematical estimation of stress distribution in normal and dysplastic human hips, 1025

Histology
Assessment of specific mRNA levels in cartilage regions in a lapine model of osteoarthritis, 535

Histomorphometry
Subchondral defects in caprine femora augmented with in situ setting hydroxyapatite cement, polymethylmethacrylate, or autogenous bone graft: biomechanical and histomorphological analysis after two-years, 464
Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys (*Macaca mulatta*), 1185

Horse
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282

HOX genes
Mutational analysis of HOXD13 and HOXA13 genes in the triphalangeal thumb–brachyectrodactyly syndrome, 899

Human
Cryopreservation of intact human articular cartilage, 1253
Fibroblast orientation to stretch begins within three hours, 953
Human atrophic fracture non-unions are not avascular, 593

Human chondrocyte
Effects of hyaluronan on proteoglycan content of osteoarthritic chondrocytes in vitro, 551

Human osteoblast
Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone, 20

HUMARA
Clonality studies in giant cell tumor of bone, 387

Hyaluronan
Effects of hyaluronan on proteoglycan content of osteoarthritic chondrocytes in vitro, 551

Hydroxyapatite
Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep, 1217
The effect of pulsed electromagnetic fields on the osteointegration of hydroxyapatite implants in cancellous bone: a morphologic and microstructural in vivo study, 756

Hypertrophic
Human atrophic fracture non-unions are not avascular, 593

ICTP
Increased content of type III collagen at the rupture site of human Achilles tendon, 1352

IGF-I
Insulin-like growth factor-I improves cellular and molecular aspects of healing in a collagenase-induced model of flexor tendinitis, 910

Ihh
Parathyroid hormone-related peptide and Indian hedgehog expression patterns in naturally acquired equine osteochondrosis, 1290

IIINTP
Increased content of type III collagen at the rupture site of human Achilles tendon, 1352

IL-8
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

Immunohistochemistry
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

Impingement syndrome
Fibronectin, MMP-1 and histologic changes in rotator cuff disease, 1358

Infection
Early intramedullary nailing in an animal model of a heavily contaminated fracture of the tibia, 648
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

Injection
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

Insulin
The effects of blood glucose control upon fracture healing in the BB Wistar rat with diabetes mellitus, 1210

Insulin like growth factor 1
The adaptation of soleus and edl in a rat model of distraction osteogenesis: IGF-1 and fibrosis, 1225

Integrins
Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone, 20

Interface
Reliability of detecting prosthesis/cement interface radiolucencies in total hip arthroplasty, 683

Interleukin-1
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819

Interleukin-1β
Effects of hyaluronan on proteoglycan content of osteoarthritic chondrocytes in vitro, 551

Intramedullary nail
Early intramedullary nailing in an animal model of a heavily contaminated fracture of the tibia, 648

Intrinsic minus finger
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

IPTG: Isopropyl β-D-thiogalactopyranoside
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Irrigation and debridement
Effect of repeated irrigation and debridement on fracture healing in an animal model, 1197

Joint
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

Joint disease
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282

Joint injury
Chronic changes in rabbit retro-patellar cartilage and subchondral bone after blunt impact loading of the patellofemoral joint, 545

Joint innervation
Denervation impairs healing of the rabbit medial collateral ligament, 990

Joint pressure
Plantar impact causing midfoot fractures result in higher forces in Chopart's joint than in the ankle joint, 222

Joint translation
The progression of anterior translation after anterior cruciate ligament reconstruction in a caprine model, 1003

Kinematics
A comparison of within- and between-day reliability of discrete 3D lower extremity variables in runners, 1139
Measurement of anterior–posterior knee laxity: a comparison of three techniques, 421

Kinetics
A comparison of within- and between-day reliability of discrete 3D lower extremity variables in runners, 1139
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

Knee
Chronic changes in rabbit retro-patellar cartilage and subchondral bone after blunt impact loading of the patellofemoral joint, 545
Measurement of anterior–posterior knee laxity: a comparison of three techniques, 421
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

Knee biomechanics
Mechanical loads at the knee joint during deep flexion, 881

Knee joint rotation measurement instrument
Evaluation of an external device measuring knee joint rotation: an in vivo study with simultaneous Roentgen stereometric analysis, 427

Lactate
High intratendinous lactate levels in painful chronic Achilles tendinosis. An investigation using microdialysis technique, 934

Laser Doppler perfusion imaging
Denervation impairs healing of the rabbit medial collateral ligament, 990

L-Arg: L-arginine
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Lateral epicondylitis
Extracorporeal shock wave therapy for lateral epicondylitis—a double blind randomised controlled trial, 895

Laxity
Measurement of anterior–posterior knee laxity: a comparison of three techniques, 421

Ligament
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

Ligament injury
Denervation impairs healing of the rabbit medial collateral ligament, 990

Light-scattering
Particle size and morphology of UHMWPE wear debris in failed total knee arthroplasties—a comparison between mobile bearing and fixed bearing knees, 1038

Limb malformation
Mutational analysis of HOXD13 and HOXA13 genes in the triphalangeal thumb–brachyectrodactyly syndrome, 899

Low intensity pulsed ultrasound
The effect of low intensity pulsed ultrasound applied to rabbit tibiae during the consolidation phase of distraction osteogenesis, 793

Matrix metalloprotease-1 (MMP-1)
Fibronectin, MMP-1 and histologic changes in rotator cuff disease, 1358

Matrix molecules
ACL transection influences mRNA levels for collagen type I and TNF-α in MCL scar, 520

MCP-1
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

Mechanical properties
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Mechanical testing
Stiff and strong compressive properties are associated with brittle post-yield behavior in equine compact bone material, 607

Mechanoreceptors
Muscle reflexes during gait elicited by electrical stimulation of the posterior cruciate ligament in humans, 433

Medial collateral ligament scar
ACL transection influences mRNA levels for collagen type I and TNF-α in MCL scar, 520

Meniscectomy
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Meniscus injury
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Mesenchymal progenitors
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060

Mesenchymal stem cell
Titanium particles suppress expression of osteoblastic phenotype in human mesenchymal stem cells, 1175

Metacarpus
Stiff and strong compressive properties are associated with brittle post-yield behavior in equine compact bone material, 607

Microdialysis
High intratendinous lactate levels in painful chronic Achilles tendinosis. An investigation using microdialysis technique, 934

Microstructure
Material properties of interstitial lamellae reflect local strain environments, 600

Midfoot fracture
Plantar impact causing midfoot fractures result in higher forces in Chopart's joint than in the ankle joint, 222

Mineralization
Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys (*Macaca mulatta*), 1185

Mobilization
Achilles tendon healing: Long-term biomechanical effects of postoperative mobilization and immobilization in a new mouse model, 939

Model
Insulin-like growth factor-I improves cellular and molecular aspects of healing in a collagenase-induced model of flexor tendinitis, 910

Modulus
Anisotropic properties of human tibial cortical bone as measured by nanoindentation, 806

Moment
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

Mouse
Achilles tendon healing: Long-term biomechanical effects of postoperative mobilization and immobilization in a new mouse model, 939

Mouse embryo
Immunohistological analysis of transglutaminase factor XIIIA expression in mouse embryonic growth plate, 575

MRI
Intratendinous strain fields of the intact supraspinatus tendon: the effect of glenohumeral joint position and tendon region, 869

mRNA levels
Assessment of specific mRNA levels in cartilage regions in a lapine model of osteoarthritis, 535

MRT—Mean residence time (days)
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Muscle
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863
The adaptation of soleus and edl in a rat model of distraction osteogenesis: IGF-1 and fibrosis, 1225

Muscle coordination
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

Muscle injury
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Muscle mechanics
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Muscle reflex
Muscle reflexes during gait elicited by electrical stimulation of the posterior cruciate ligament in humans, 433

Nanoindentation
Anisotropic properties of human tibial cortical bone as measured by nanoindentation, 806
Material properties of interstitial lamellae reflect local strain environments, 600

Neurogenic inflammation
Denervation impairs healing of the rabbit medial collateral ligament, 990

Neuropeptide Y
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

NF-κB
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

NFκB
The role of p105 protein in NFκB activation in ANA-1 murine macrophages following stimulation with titanium particles, 714

Non-steroidal anti-inflammatory drug
COX-2 selective NSAID decreases bone ingrowth in vivo, 1164

Non-union
Human atrophic fracture non-unions are not avascular, 593

Norepinephrine
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391

Organ culture
Polyethylene and methyl methacrylate particle-stimulated inflammatory tissue and macrophages up-regulate bone resorption in a murine neonatal calvaria in vitro organ system, 1031

Orthopaedic implant
The role of adsorbed endotoxin in particle-induced stimulation of cytokine release, 704

Osteoarthritis
Effects of hyaluronan on proteoglycan content of osteoarthritic chondrocytes in vitro, 551

Osteoarthrosis
Chronic changes in rabbit retro-patellar cartilage and subchondral bone after blunt impact loading of the patellofemoral joint, 545

Osteoblast
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

Osteoblasts
Expression of smooth muscle actin in osteoblasts in human bone, 622
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060

Osteochondrosis
Excessive degradation of type II collagen in articular cartilage in equine osteochondrosis, 1282
Parathyroid hormone-related peptide and Indian hedgehog expression patterns in naturally acquired equine osteochondrosis, 1290

Osteogenesis
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060

Osteoinduction
Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication, 740
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Osteointegration
Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep, 1217
The effect of pulsed electromagnetic fields on the osteointegration of hydroxyapatite implants in cancellous bone: a morphologic and microstructural in vivo study, 756

Osteolysis
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696
Particle size and morphology of UHMWPE wear debris in failed total knee arthroplasties—a comparison between mobile bearing and fixed bearing knees, 1038
The role of p105 protein in NFκB activation in ANA-1 murine macrophages following stimulation with titanium particles, 714

Osteolysis model
A novel bisphosphonate inhibits inflammatory bone resorption in a rat osteolysis model with continuous infusion of polyethylene particles, 499

Osteopenic sheep
Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep, 1217

Osteoporosis
Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep, 1217
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801

PAI-1: Plasminogen activator inhibitor-1
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Pain
High intratendinous lactate levels in painful chronic Achilles tendinosis. An investigation using microdialysis technique, 934

Partial meniscectomy
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Particle size
Particle size and morphology of UHMWPE wear debris in failed total knee arthroplasties—a comparison between mobile bearing and fixed bearing knees, 1038

Particles
The role of adsorbed endotoxin in particle-induced stimulation of cytokine release, 704
The role of p105 protein in NFκB activation in ANA-1 murine macrophages following stimulation with titanium particles, 714

Particulates
Titanium particles induce the immediate early stress responsive chemokines IL-8 and MCP-1 in osteoblasts, 490

PCR
Clonality studies in giant cell tumor of bone, 387

Pedicular fixation
Pedicular fixation in the osteoporotic spine: a pilot in vivo study on long-term ovariectomized sheep, 1217

PEG: Polyethylene glycol
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Pelvic shape
Mathematical estimation of stress distribution in normal and dysplastic human hips, 1025

Periosteum
Temporal expression patterns of BMP receptors and collagen II (B) during periosteal chondrogenesis, 58

Peripheral nerves
Early nerve regeneration after Achilles tendon rupture—a prerequisite for healing? A study in the rat, 849

Periprosthetic osteolysis
A novel bisphosphonate inhibits inflammatory bone resorption in a rat osteolysis model with continuous infusion of polyethylene particles, 499

Phagocytosis
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696

Pharmacokinetics
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

PIIINP
Increased content of type III collagen at the rupture site of human Achilles tendon, 1352

Pinch
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

PINP
Increased content of type III collagen at the rupture site of human Achilles tendon, 1352

Plantar impact
Plantar impact causing midfoot fractures result in higher forces in Chopart's joint than in the ankle joint, 222

***p*NPP: *p*-Nitrophenyl phosphate**
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

PMSF: Phenylmethysulfonyl fluoride
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Poly (DL-lactide co-glycolide)
In vivo study of hot compressing molded 50:50 poly (DL-lactide-co-glycolide) antibiotic beads in rabbits, 654

Polyethylene
Particle size and morphology of UHMWPE wear debris in failed total knee arthroplasties—a comparison between mobile bearing and fixed bearing knees, 1038

Polyethylene wear
Experimental assessment of precision and accuracy of radiostereometric analysis for the determination of polyethylene wear in a total hip replacement model, 688

Polyglycolic acid
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842

Polymers
Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone, 20

Polymethylmethacrylate
Subchondral defects in caprine femora augmented with in situ setting hydroxyapatite cement, polymethylmethacrylate, or autogenous bone graft: biomechanical and histomorphological analysis after two-years, 464

Post-yield behavior
Stiff and strong compressive properties are associated with brittle post-yield behavior in equine compact bone material, 607

Posterior cruciate ligament
Muscle reflexes during gait elicited by electrical stimulation of the posterior cruciate ligament in humans, 433

Pouch membrane
Polyethylene and methyl methacrylate particle-stimulated inflammatory tissue and macrophages up-regulate bone resorption in a murine neonatal calvaria in vitro organ system, 1031

pQCT
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

Prostheses
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

Prosthesis loosening
Reliability of detecting prosthesis/cement interface radiolucencies in total hip arthroplasty, 683

Proteomics
Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, 1190

PTH-rP
Parathyroid hormone-related peptide and Indian hedgehog expression patterns in naturally acquired equine osteochondrosis, 1290

Pulsatile lavage
High-pressure pulsatile lavage irrigation of contaminated fractures: effects on fracture healing, 1205

Quantitative computed tomography
The X-ray attenuation characteristics and density of human calcaneal marrow do not change significantly during adulthood, 633

Rabbit
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

Rabbit animal model
In vivo study of hot compressing molded 50:50 poly (DL-lactide-co-glycolide) antibiotic beads in rabbits, 654

Rabbit model
The effect of low intensity pulsed ultrasound applied to rabbit tibiae during the consolidation phase of distraction osteogenesis, 793

Rabbits
The effect of pulsed electromagnetic fields on the osteointegration of hydroxyapatite implants in cancellous bone: a morphologic and microstructural in vivo study, 756

Radiolucencies
Reliability of detecting prosthesis/cement interface radiolucencies in total hip arthroplasty, 683

Radiostereometric analysis
Experimental assessment of precision and accuracy of radiostereometric analysis for the determination of polyethylene wear in a total hip replacement model, 688

Rat
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764
The adaptation of soleus and edl in a rat model of distraction osteogenesis: IGF-1 and fibrosis, 1225

Rats
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863

Regeneration bone consolidation
The effect of low intensity pulsed ultrasound applied to rabbit tibiae during the consolidation phase of distraction osteogenesis, 793

Remodeling
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Repair
Insulin-like growth factor-I improves cellular and molecular aspects of healing in a collagenase-induced model of flexor tendinitis, 910

Repeatability
A comparison of within- and between-day reliability of discrete 3D lower extremity variables in runners, 1139

Resorption
In vivo fatigue loading of the rat ulna induces both bone formation and resorption and leads to time-related changes in bone mechanical properties and density, 764
Vascular endothelial growth factor (VEGF)-induced angiogenesis in herniated disc resorption, 409

rhBMP-2
Bone consolidation is enhanced by rhBMP-2 in a rabbit model of distraction osteogenesis, 779

rhBMP-4
Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication, 740

rhBMP3-C: Recombinant human collagen-targeted BMP3 fusion protein
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

rhBMP3: Recombinant human BMP3 fusion protein without a collagen-binding domain
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Rhesus monkey
Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys (*Macaca mulatta*), 1185

Rib cage
Rib cage surgery for the treatment of scoliosis: a biomechanical study of correction mechanisms, 1121

Risk factors
Predictors of wound infection in hip and knee joint replacement: results from a 20 year surveillance program, 506

RNA splicing
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

Rotator cuff
Functional morphology of the supraspinatus tendon, 920
Intratendinous strain fields of the intact supraspinatus tendon: the effect of glenohumeral joint position and tendon region, 869

Rotator cuff rupture
Fibronectin, MMP-1 and histologic changes in rotator cuff disease, 1358

RSA
Measurement of anterior–posterior knee laxity: a comparison of three techniques, 421

Rupture
Early nerve regeneration after Achilles tendon rupture – a prerequisite for healing? A study in the rat, 849

Sarcoma
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

S. aureus
Low molecular weight heparin aggravates infectious arthritis triggered by *Staphylococcus aureus*, 198

Scleraxis
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827

Scoliosis
Rib cage surgery for the treatment of scoliosis: a biomechanical study of correction mechanisms, 1121

Sheep cartilage biochemistry
Factors influencing changes in articular cartilage following hemiarthroplasty in sheep, 669

Shock wave
Extracorporeal shock wave therapy for lateral epicondylitis—a double blind randomised controlled trial, 895

Shoulder
Intratendinous strain fields of the intact supraspinatus tendon: the effect of glenohumeral joint position and tendon region, 869

Smooth muscle actin
Expression of smooth muscle actin in osteoblasts in human bone, 622

Sox9
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827

Spinal fusion
Recombinant human bone morphogenetic protein-4 (rhBMP-4) enhanced posterior spinal fusion without decortication, 740

Spine
Quantitative computed tomography estimates of the mechanical properties of human vertebral trabecular bone, 801

Spine fusion
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Spontaneous
Increased content of type III collagen at the rupture site of human Achilles tendon, 1352

Strain
Fibroblast orientation to stretch begins within three hours, 953
Material properties of interstitial lamellae reflect local strain environments, 600

Streaming potentials
Detection and analysis of cartilage degeneration by spatially resolved streaming potentials, 819

Stretch
Fibroblast orientation to stretch begins within three hours, 953

Subject
Subject variation in caprine anterior cruciate ligament reconstruction, 1009

Supraspinatus
Functional morphology of the supraspinatus tendon, 920

Surgical planning
Releasing the A3 pulley and leaving flexor superficialis intact increases pinch force following the Zancolli lasso procedures to prevent claw deformity in the intrinsic palsied finger, 902

Surgical tendon transfer
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Surgical treatment
Rib cage surgery for the treatment of scoliosis: a biomechanical study of correction mechanisms, 1121

Targeted growth factors
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

TCA—Trichloroacetic acid
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

Tendon
Coordinated expression of *scleraxis* and *Sox9* genes during embryonic development of tendons and cartilage, 827
Insulin-like growth factor-I improves cellular and molecular aspects of healing in a collagenase-induced model of flexor tendinitis, 910
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

Tendon anotomy
Functional morphology of the supraspinatus tendon, 920

Tendon function
Functional morphology of the supraspinatus tendon, 920

Tendon healing
Achilles tendon healing: Long-term biomechanical effects of postoperative mobilization and immobilization in a new mouse model, 939
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Tendon repair
Remodeling of the gliding surface after flexor tendon repair in a canine model in vivo, 857

Tendon transfer
Progressive surgical dissection for tendon transposition affects length–force characteristics of rat flexor carpi ulnaris muscle, 863

Tendons
Intratendinous strain fields of the intact supraspinatus tendon: the effect of glenohumeral joint position and tendon region, 869

Tennis
Extracorporeal shock wave therapy for lateral epicondylitis—a double blind randomised controlled trial, 895

Tenofovir
Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys (*Macaca mulatta*), 1185

Tenotomy
Differential expression of neural cell adhesion molecule (NCAM) after tenotomy in rabbit skeletal muscle, 364

Tensile properties
Chondropathy after meniscal tear or partial meniscectomy in a canine model, 996

Tensile test
In situ strain and stress of nerve conduction blocking in the brachial plexus, 1311

$t_{1/2}$—Terminal half-life of retention vs. time profile (days)
Retention of ^{125}I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model, 1050

TFA: Trifluoroacetic acid
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

TGF-β: Transforming growth factor-β
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Tibia
Early intramedullary nailing in an animal model of a heavily contaminated fracture of the tibia, 648
Endogenous norepinephrine regulates blood flow to the intact rat tibia, 391

Tissue engineering
Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone, 20
Static and dynamic compression modulate matrix metabolism in tissue engineered cartilage, 842

Titanium
Titanium particles suppress expression of osteoblastic phenotype in human mesenchymal stem cells, 1175

TLS/CHOP
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

TNFα
The role of p105 protein in NFκB activation in ANA-1 murine macrophages following stimulation with titanium particles, 714

Total hip arthroplasty
Reliability of detecting prosthesis/cement interface radiolucencies in total hip arthroplasty, 683

Total knee arthroplasty
Mechanical loads at the knee joint during deep flexion, 881

Trabecular bone
Multilineage mesenchymal differentiation potential of human trabecular bone-derived cells, 1060

Traction injury
In situ strain and stress of nerve conduction blocking in the brachial plexus, 1311

Transglutaminase FXIIIA
Immunohistological analysis of transglutaminase factor XIIIA expression in mouse embryonic growth plate, 575

Translocation
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

Treatment
Extracorporeal shock wave therapy for lateral epicondylitis—a double blind randomised controlled trial, 895

Triphalangeal thumb
Mutational analysis of HOXD13 and HOXA13 genes in the triphalangeal thumb–brachyectrodactyly syndrome, 899

Vancomycin
In vivo study of hot compressing molded 50:50 poly (DL-lactide-co-glycolide) antibiotic beads in rabbits, 654

Variation
Subject variation in caprine anterior cruciate ligament reconstruction, 1009

Vascular endothelial growth factor (VEGF)
Vascular endothelial growth factor (VEGF)-induced angiogenesis in herniated disc resorption, 409

Vascularity
Human atrophic fracture non-unions are not avascular, 593

von Willebrand factor
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

vWF: von Willebrand factor
Collagen-targeted BMP3 fusion proteins arrayed on collagen matrices or porous ceramics impregnated with Type I collagen enhance osteogenesis in a rat cranial defect model, 747

Wear debris
A novel bisphosphonate inhibits inflammatory bone resorption in a rat osteolysis model with continuous infusion of polyethylene particles, 499
Particle size and morphology of UHMWPE wear debris in failed total knee arthroplasties—a comparison between mobile bearing and fixed bearing knees, 1038
Polyethylene and methyl methacrylate particle-stimulated inflammatory tissue and macrophages up-regulate bone resorption in a murine neonatal calvaria in vitro organ system, 1031
The role of adsorbed endotoxin in particle-induced stimulation of cytokine release, 704
The role of p105 protein in NFκB activation in ANA-1 murine macrophages following stimulation with titanium particles, 714

Wear particles
Adherent endotoxin mediates biological responses of titanium particles without stimulating their phagocytosis, 696

Titanium particles suppress expression of osteoblastic phenotype in human mesenchymal stem cells, 1175

Wound irrigation
High-pressure pulsatile lavage irrigation of contaminated fractures: effects on fracture healing, 1205

Wrist
Wrist kinetics after luno-triquetral dissociation: the changes in moment arms of the flexor carpi ulnaris tendon, 1327

X-chromosome
Clonality studies in giant cell tumor of bone, 387

YB-1
RNA splicing mediated by YB-1 is inhibited by TLS/CHOP in human myxoid liposarcoma cells, 723

Zirconia
Titanium particles suppress expression of osteoblastic phenotype in human mesenchymal stem cells, 1175